SBB No. 65/23-24
DATED 05/09/2023

Original/Duplicate/Triplicate

CONTRACT CERTIFICATE

(For Other Works)

EE/ELE/Y/BR No.....

No. 1st RA Bill Date.....2023

Division: **Electrical (yelahanka)** Sub-Division: **Electricals** Dt.....

Bill Received No. Dated Divisional Cash Book Voucher No..... Dated.....

Sub Divisional **Job Code No :004-23-000019**

Schedule Docket No. Head of Account : P-CODE: P0294 D.R.No. :

Name of Work:- Annual Maintenance and Repairs of Electrical Installations to BBMP buildings coming under yelahanka Constituency.

Name of Contractor and Full Address: M/s Power Mac. Bill Period: 01-04-2023 to 30-06-2023

Reference to Agreement No:- BBMP/EE/ELE/YZ/AGR/000032 /2022-23 Date 24/03/2023

Work order No:- EE(Ele)/YZ/W.O/000032/2022-23 Date 24/03/2023

Certified that the measurements were taken by me on 18/7/23 and recorded of Pages 260057 to 260062 of measurement Book No. 2601 22:23 and that the work is satisfactorily executed.

For POWER MAC

Proprietor

Contractor

Officer-in-charge of work

Certified that the measurement were taken by me on 18/7/23 and found correct. The work is satisfactorily executed.

Certified that the quantities of materials shown in column 3 of Account have been actually brought to site of the work and the contractor has not previously received any advance on this security. These materials are of and imperishable nature and are all required for immediate use on the work in connection with items for finished work have been agreed upon. A normal agreement signed and executed by the contractor is recorded in the office.

Assistant Executive Engineer (Ele)

Sub-Division Officer

II Memorandum of Payment

1) Total value of work done or supplies made as per account within	1st RABill	150496:00
2) Deduct amount to be held in reserve being .....percent Rs.....		
3) " Balance		
4) Deduct Payment:		
a) Amount of previous payment as in the Office Cash Book Voucher No.....Dated.....S.D. No..... towards cash advance recovery of	Amount adjusted	
b) Payments Now made cost store or other material supplied. recovery of amount creditable to this/other work Amount paid on this bill Cheque / Cash.		
5) Balance being unpaid value of work done held in reserve.		
6) Deduct cash advance made on the Office cash Book Voucher No..... dated.....less adjustments.	Deduction unadjustments items.	5710:00
7) Net amount due to or from Contractor	By Cheque	144786:00
8) Advance to Contractor for materials brought to site (as detailed) within	Total amount adjusted	
9) Value of Government materials supplied.		

ITI-1.	1505:00
LHC 1-1.	1505:00
CBFO-1-1.	150:00
CGST 1-1.	1275:00
SGST 1-1.	1275:00

For.POWER MAC Contractor's Signature

Received Rs..... (in words).....

.....

by cash and by adjustment of Payment as per memorandum (in final settlement of all demands)

For POWER MAC Proprietor (For use in the Office)

Witness

1.

2.

Dated Signature of Contractor

Paid by me by Cheque No.....Dated.....

Cash Rs.....

Dated.....

Initials of Officer making payment

Stamp

PO 294 Mond R to

ರೂ: 150496:00 ಮೊತ್ತ ಪಾವತಿ

ರೂ: 144786:00 ನಿವ್ವಳ ಪಾವತಿ

ರೂ: 5710:00 ಮುಂಗಡ ಮರುಪಡೆ

Executive Engineer

ಕಾ.ಅ.ಅ.(ವಿ) ಯವರಿಂದ ಮಂಜೂರು

Sl. No	Description	Unit
	Name Of Work:- Annual Maintenance and Repairs of Electrical Installations to BBMP buildings coming under yelahanka Constituency.	
1	Licenced electricial wiremen with tools (Skilled) Rs.625.17/Days KAE 31 LMW 2017 Dated 30-12-2017 Minium Wages and VDA From 01-04-2022 to 31-03-2023	Days
2	Assistant wiremen (semiSkilled) Rs576.14/Days KAE 31 LMW 2017 Dated 30-12-2017 Minium Wages and VDA From 01-04-2022 to 31-03-2023	Days
3	Supplying and fixing/replacing of 6/16/32Amps electrical accessories on existing switch board 6Amps SP Switch	No
4	Supplying and fixing/replacing of 6/16/32Amps electrical accessories on existing switch board 6Amps 3 way 5 pin Socket	No
5	Supplying and fixing/replacing of 6/16/32Amps electrical accessories on existing switch board 6Amps 3 pin Top	No
6	Supplying and fixing/replacing of 6/16/32Amps electrical accessories on existing switch board 6 Amps bell push	No
7	Supplying and fixing/replacing of 6/16/32Amps electrical accessories on existing switch board 16 Amps SP switch	No
8	Supplying and fixing/replacing of 6/16/32Amps electrical accessories on existing switch board 16 Amps 3 way 5 pin socket	No
9	Supplying and fixing/replacing of 6/16/32Amps electrical accessories on existing switch board 16 Amps 3 pin top	No
10	Supplying and fixing/replacing of 6/16/32Amps electrical accessories on existing switch board 32 Amps Bakelite DP	No
11	Supplying and fixing/replacing of 6/16/32Amps electrical accessories on existing switch board 16/6 Amps combined plug and socket with control switch	No
12	Supplying and fixing/replacing of 6/16/32Amps electrical accessories on existing switch board Electronic stepped regulator.	No
13	Supplying and fixing of PVC casing and capping on the wall or ceiling using necessary materials like bends, junction box, elbows, screws at an interval of 300mm .... etc. as required 20mm	m
14	Supplying and fixing of PVC casing and capping on the wall or ceiling using necessary materials like bends, junction box, elbows, screws at an interval of 300mm .... etc. as required 25mm	m
15	Supplying and fixing surface/flush mounting unbreakable PVC modular box suitable for mounting modular switch plates with due groove cutting in Brick/C.C wall, including necessary rawl plugs, Machine/NF screws etc., complete 1-3Way	Each
16	Supplying and fixing surface/flush mounting unbreakable PVC modular box suitable for mounting modular switch plates with due groove cutting in Brick/C.C wall, including necessary rawl plugs, Machine/NF screws etc., complete 4-5Way	Each
17	Supplying and fixing surface/flush mounting unbreakable PVC modular box suitable for mounting modular switch plates with due groove cutting in Brick/C.C wall, including necessary rawl plugs, Machine/NF screws etc., complete 6Way	Each
18	Supplying and fixing superior quality modular switch mounting polycarbonate plate with necessary supporting back plate with required nos. of machine screws, bolts nuts etc., complete on the existing metal/PVC box 1 to 3 Module	Each
19	Supplying and fixing superior quality modular switch mounting polycarbonate plate with necessary supporting back plate with required nos. of machine screws, bolts nuts etc., complete on the existing metal/PVC box 4 Module	Each
20	Supplying and fixing superior quality modular switch mounting polycarbonate plate with necessary supporting back plate with required nos. of machine screws, bolts nuts etc., complete on the existing metal/PVC box 6 Module	Each
21	Supplying and fixing of modular switch & connected accessories on existing modular switch plate as per IS 3854 and IS 1293 6Amps one way Switch	Each
22	Supplying and fixing of modular switch & connected accessories on existing modular switch plate as per IS 3854 and IS 1293 6Amps one way Switch 6Amps 3way socket	Each
23	Supplying and fixing of modular switch & connected accessories on existing modular switch plate as per IS 3854 and IS 1293 6Amps one way Switch Stepped Fan Regulator	Each
24	Supplying and fixing of modular switch & connected accessories on existing modular switch plate as per IS 3854 and IS 1293 16Amps one way switch	Each
25	Supplying and fixing of modular switch & connected accessories on existing modular switch plate as per IS 3854 and IS 1293 6/16Amps universal socket	Each

Previous Measurement		Present Measurement			Total Upto Date		Remarks
Qty	Cost	Qty	Rate	Amount	Qty	Cost	
		55	630.00	34650.00			
		55	558.00	30690.00			
		20	36.00	720.00			
		5.00	36.00	180.00			
		3.00	36.00	108.00			
		3	45.00	135.00			
		5	81.00	405.00			
		4.00	81.00	324.00			
		3	81.00	243.00			
		4	189.00	756.00			
		4	207.00	828.00			
		5	207.00	1035.00			
		0	18.00	0.00			
		50	18.00	900.00			
		0	72.00	0.00			
		0	99.00	0.00			
		0	126.00	0.00			
		0	126.00	0.00			
		0	126.00	0.00			
		0	189.00	0.00			
		0	72.00	0.00			
		0	126.00	0.00			
		0	189.00	0.00			
		0	189.00	0.00			
		0	189.00	0.00			

26	Supplying 4mm thick plastic sheet with necessary nitches for fixing switches, regulators etc., and fixing on existing wooden or metal box using N.F. screws.	cm^2
27	Supplying push button operated direct online starter with an antiweld silver cadmium oxide contactor with replaceable fixed and moving contacts and bimetallic thermal overload relay help in anticorrosion treated sheet steel or iron clad enclosure and fixing the same to suitable capacity wires for 230/440 volts 1/3 phase motor upto 5 HP.	Each
28	Supplying of Switch disconnector fuse unit (TPN) HRC type (but without HRC fuses). With AC-23A duty and as per IS- 13947.100 Amps	Each
29	Supplying of Switch disconnector fuse unit (TPN) HRC type (but without HRC fuses). With AC-23A duty and as per IS- 13947.160 Amps	Each
30	Supplying and fixing HRC fuse units base on existing switch/ panel board 100 to 300 Amps	Each
31	Supply and fixing of 4pole power contactor with NO/NC contacts on existing wood/panel board using necessary bolts, nuts, washers and wiring etc., complete with AC-3 Rating and as per IS-13947.160 Amps	Each
32	Supplying and fixing miniature circuit breakers on existing MCB distribution boards using necessary fixing materials and 'C' Type curve, indicator ON/OFF, energy cross-3 with Short circuit breaking capacity of 10K and complete wiring as required confirming to IEC 60898.6-32Amps SP	Each
33	Supplying and fixing miniature circuit breakers on existing MCB distribution boards using necessary fixing materials and 'C' Type curve, indicator ON/OFF, energy cross-3 with Short circuit breaking capacity of 10K and complete wiring as required confirming to IEC 60898.6-32 Amps DP	Each
34	Supplying and fixing miniature circuit breakers on existing MCB distribution boards using necessary fixing materials and 'C' Type curve, indicator ON/OFF, energy cross-3 with Short circuit breaking capacity of 10K and complete wiring as required confirming to IEC 60898.40 Amps TPN	Each
35	Supplying, fixing and wiring 3 Phase Digital Ammeter / Voltmeter.	Each
36	Supplying and fixing digital frequency meter with latest micro controller technology, ultra bright 4 digit LED display, from 30-500V AC and optional or relay output for high/low frequency and wiring complete.	Each
37	Supplying and fixing of LED type panel board indicating lamp with required colour suitable for 230/440v A.C. 50 Hz 12/24v D.C.	Each
38	Laying of cable in Existing Trench/GI pipe/Stone Ware/RCC Hume pipe using Wooden/Aluminum Rollers as directed by the departmental staff 2.5 to 25 Sqmm	Km
39	Supplying capacitor type ceiling fan complete with down rod blades, shackle, canopies etc., for operation on 230 volts, 50 cycles. Single phase AC supply conforming to ISS-374- 1979 and with double ball bearing system.48" Sweep (1200mm) Regular model	Each
40	Supplying wall mounting fan suitable to operate at single- phase 230v A.C. supply.400mm Sweep	Each
41	Supplying, installation, testing & commissioning of 12V DC, AH batteries in poly propylene container for U.P.S. Sealed maintenance free batteries.120 AH capacity	Each
42	Supplying of .....feet - PVC Batten with integrated LED tube .....W with high quality diffuser with Life of 25000 burning hours & 70% lumen maintenance with CRI > 80. Power Input: 220-240V @ 50/60Hz & Power factor >0.9 along with CE approved. 2 years Warranty against any manufacturing defect working under standard electrical condition LED light fighting 1 x4'- 20/22 w	Each
43	Supplying of recess mounting non integrated type LED down light ..... W luminaire comprising of pressure decast/ extruded aluminium housing, with spring loaded false ceiling clamps, LED of Power/COB with CCT 6500 degree K, CRI> 70%, efficacy >100 lumen per watt, 120degree beam spread, life> 25000 burning hours and Compliance to IS 10322/IEC 60598, LM 79 & LM 80. The lamp compartment is enclosed with anti glare opal diffuser which enhances the lighting level. LEDs are driven by HF electronic driver integrated in a separate control gear assembly., with PF > 0.95, power loss should < 5% of lamp wattage., short circuit & open circuit protection to be integrated in the circuit, THD less than 20%, Life as per LM 79. The operating input voltage should be between 130 to 275 volts. BIS Approved and Tested by NABL/CPRI accredited laboratory with 2 years Warranty against any manufacturing defect working under standard electrical condition.15-18W	Each

		0	0.18	0.00			
		0	801.00	0.00			
			4500.00	0.00			
		0	4500.00	0.00			
		0	306.00	0.00			
		0	13500.00	0.00			
		2	450.00	900.00			
		2	909.00	1818.00			
		3	1260.00	3780.00			
		3	909.00	2727.00			
		0	702.00	0.00			
		3	306.00	918.00			
		0	16119.00	0.00			
		2	1809.00	3618.00			
		2	1809.00	3618.00			
		1	15381.00	15381.00			
		6	603.00	3618.00			
		3	1890.00	5670.00			

44	Supply of round/square recess/surface mounted rolling type LED Down light with .....W GU 10 LED Lamp Rib Fabricated from Die cast aluminium with white powder coated prewired to mains connector & has swiveling unit of aluminium die cast eye ball & LED Lamp position retained by circular wire spring, with Life of 25000 burning hours & 70% lumen maintenance with CRI > 80. Power Input: 220-240V @ 50/60Hz & Power factor >0.9 along with CE approved. 2 years Warranty against any manufacturing defect working under standard electrical condition LED square or round down light 15-18W	Each
45	Supplying and fixing one of 230 volts bell or buzzer and a flush type bell push with gang box fixed on necessary wooden or rawl plugs using NF screws	Each
46	Supplying and fixing one of 230 volts Ding dong bell and a flush type bell push with gang box fixed on necessary wooden or rawl plugs using NF screws with Musical	Each
47	Supplying and fixing one of 230 volts Ding dong bell and a flush type bell push with gang box fixed on necessary wooden or rawl plugs using NF screws with Remote Remote	Each
48	Supplying and fixing/replacing condenser for ceiling fan/MV/ SV/MH and other luminaries 8mfd	Each
49	Rewinding a ... mm ceiling fan/after using necessary gauge annealed and insulated copper wire with necessary insulating, separators vibration arresting shellac,etc including replacement of bearings if any transportation to and from the spot to workshop inclusive of releasing the refixing 1200MM	Each
50	Supplying and fixing of T8 36/40W Fluorescent Tube with 36W power consumption with initial lumen of 2750 (3000 deg K / 4000 deg K) with rated avg life of greater than 10000 hrs Operating voltage range from 180V to 265V, 50Hz AC power Supply	No
51	Supplying and fixing of 20/40 Watts heavy duty open construction Ferromagnetic copper ballast for fluorescent tubes : Supplying and fixing of 20/40 Watts heavy duty open construction Ferromagnetic copper ballast for fluorescent tubes, Class H Insulated copper wire, Vacuum impregnated high quality with Low loss silicon steel lamination operated on 240V,50Hz supply with IEC 60920 (Safety) & IEC 60921(Performance). Operating voltage range from 180V to 265V, 50Hz AC power Supply.	No
52	Supplying & Fixing of 230 Volts 20/40 watts starter for Fluorescent Lamp	No
53	Supplying & Fixing of 230 Volts 20/40 watts Fluorescent Lamp holder	No
54	Supplying & fixing LED Drivers suitable for 5700K LED fitting Indoor Fixtures. Operating voltage range from 180V to 265V, 50Hz AC power Supply 9W to 12W 5700K suitable for indoor LED fitting	Each
55	Supplying & fixing LED Drivers suitable for 5700K LED fitting Indoor Fixtures. Operating voltage range from 180V to 265V, 50Hz AC power Supply 15W to 18W 5700K suitable for indoor LED fitting	Each
56	Fixing all types and all capacities of fluorescent / false ceiling / spot light / CFL / LED fittings indoor on the wall / ceiling / rafters / girders using 23/0.0076" twin twisted PVC insulated wires, required Nos of round blocks and clamps On wall / ceiling / Rafter / Girders	Each
57	Fixing a ceiling / Wall mounting fan of all capacities and all types to the existing 'S' hook with fan regulator to the existing board together with supplying and fixing 5 amps. ceiling rose, necessary length of 23 / 0.0076 inch PVC insulated twin twisted copper wire and wiring.	Each
58	Fixing a ceiling / wall mounting fan of all capacities and all types, with necessary clamps and 'S' hook made out of 15mm dia MS rod, with 5 amps. ceiling rose of approved quality with necessary length of 23 / 0.0076 inch PVC insulated twin twisted wire of approved quality, mounted on a suitable size wooden board and wired	Each
59	Erection of single phase preventer / ammeters / including fixing selector switch / voltmeter / current operated earth leakage circuit breakers / voltage operated circuit breaker / above 100A fuse channel set (3 Nos) HRC fuses above 100A (3 Nos.) / Digital ammeter/digital volt meter/set of 3 indicating lamps /MCB / Relays /A-V selector switches including wiring using suitable capacity wires, bolts, nuts, screws	Each
60	Supplying of1.1 kV, XLPE or Heat resistant PVC insulated, PVC exutruted Inner Seath Armoured LTUG Cable as per IS-1554 (Part- 1) or IS-7098 Part-1, Armouring strip thickness and resistivity as per IS-3975 25 Sqmm, 4 Core, (13 GI Strips - 4 x 0.8 mm)	KM
	Total Rs	
	GST Charges (18% on SR Electrical items) Item No 01 to 59	
	Total Rs	

Certificate: 1. Certefied that the Above Work has been carreid out satisfactorily
2. This Bill amount has not been claimed in any previous bills.

18/7/23

Assistant Executive Engineer (Ele)
BBMP, Bangalore

		5	1260.00	6300.00			
		0	81.00	0.00			
		0	207.00	0.00			
		0	909.00	0.00			
		5	99.00	495.00			
		3	603.00	1809.00			
		15	54.00	810.00			
		5	270.00	1350.00			
		12	18.00	216.00			
		0	16.20	0.00			
		3	207.00	621.00			
		3	306.00	918.00			
		14	99.00	1386.00			
		2	99.00	198.00			
		2	207.00	414.00			
		0	99.00	0.00			
		0	240813.00	0.00			
				127539.00		**127539.00**	
			127539.00	22957.02		22957.02	
				150496.02		**150496.02**	